

CLAIMS

1. Process for removing nitric oxides (NO_x) and nitrous oxide (N_2O) from a gas comprising NO_x , N_2O , oxygen and water comprising:

5 - adding an amount of ammonia to said gas such that the amount of ammonia is at a value $0.7 < X < 1.4$, wherein X is the voluminal ratio of ammonia/nitrogen oxides;

 -causing said gas to circulate at temperatures ranging between 200 and 600 °C, on a catalyst comprising a iron beta-zeolite .

10 2. Process according to claim 1, wherein said gas comprises between 100 and 7000 ppmv of NO_x and N_2O .

 3. Process according to claim 1, wherein said iron beta-zeolite comprises an iron beta-zeolite granule and an agglomeration binder.

15 4. Process according to claim 1 in which the iron beta-zeolite is a beta zeolite of Si/Al molar ratio ranging between 8 and 100, charged with iron by impregnation or exchange, in which the content by weight of iron ranges between 0.02 and 8%.

 5. Process according to claim 4, wherein the Si/Al molar ratio ranges between 8 and 20.

20 6. Process according to claim 4, wherein the content by weight of iron ranges between 0.5-3%.

 7. Process according to claim 1, in which said gas circulates over the iron beta catalyst at voluminal velocities per hour (VVH) from 1000 to 50 000 h^{-1} .

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